



U.S. DEPARTMENT OF COMMERCE

MAURICE H. STANS, Secretary

ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION

ENVIRONMENTAL DATA SERVICE

# STORM DATA

Volume 12 No. 3

MARCH 1970

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
<b>Alabama</b>									
Iaton Hill Community, Washington County	3	6:45 p	Short	?	0	0	4	0	Tornado
Barn and house demolished, several houses damaged and trees uprooted.									
Henry County	11	4:00-4:30 p			0	0	4	0	Wind
Barn destroyed, scattered damage to roofs and trees, windows broken in Abbeville, animals damaged.									
Fayette, Fayette County	17	7:25 p			0	0	2	0	Hail
Hail, 3/4 inch in diameter, reported by public for brief period.									
Greensboro, Hale County	19	6:00 a	Short	Narrow	0	0	4	0	Tornado
Tornado touched down near depot area damaging a store and nearby warehouse. Tree limbs broken off damaged a few houses.									
Lamar, Pickens, Fayette, Tuscaloosa, Walker, Jefferson, Bibb, Shelby, St. Clair, Talladega, Calhoun, Clay, Cleburne, Randolph	19	Day			1	0	7	5	Rain, wind, hail
Numerous thunderstorms and torrential rains from 6" to 10" caused severe flooding of urban and rural low areas. In Jefferson County over 2000 persons had to be evacuated, about 1200 homes and numerous commercial buildings damaged. At Anniston a child drowned in flooded ditch. Extensive damage to roads and bridges in many areas. Some livestock lost. Scattered damage from wind. At Tuscaloosa about mid-morning, wind overturned several mobile homes, unroofed several buildings and destroyed a drive-in theatre screen. Hail up to 1" in diameter reported in scattered areas during the morning. Damage from rain 95%, wind 5% and hail negligible.									
Little Shoamut-Plant City, Chambers County	19	11:08p	2	200	2	1 1/2	5	0	Tornado
Tornado hit in Little Shoamut area and moved east-northeast into Plant City. Greatest damage in Little Shoamut area. A large school building and 2 churches damaged severely, 6 houses destroyed, 15 houses had major damage, 3 mobile homes damaged and numerous houses had minor damage.									
Conecuh County	23	10:30 a	Short	Narrow	0	0	2	0	Tornado
Funnel observed by State Trooper moving east, touched down briefly near Highway I-65, 17 miles southwest of Evergreen. A few trees uprooted.									
<b>Alaska</b>									
None reported									
<b>Arizona</b>									
Parker	26	Afternoon			1	4			Wind
Strong winds damaged an airplane and several house trailers. Man suffered cuts from flying debris.									
<b>Arkansas</b>									
Extreme southern Arkansas	3	Forenoon							Windstorms
Windstorms struck in a 12 county area between 9:30 A.M. and noon. The area ran from Hempstead and Lafayette Counties in the southwest, eastward to the Mississippi counties. Following were the hardest hit areas.									
Camden - Ouachita County	3	9:30 a.					4		Windstorm
Drive-in theater screen demolished along with mobile home and numerous roofs, trees and windows.									
Shuler - Union County	3	9:15 a. to 9:30 a.					4		Windstorm
Barn demolished plus tree and roof damage. Winds at El Dorado airport observed to 75 mph.									
Northeast Arkansas	25	5:00 p. to 6:00 p.							Windstorm
A nine county area of northeast Arkansas was hit by scattered wind squalls. Reports of wind damage (mostly minor) were received from Newport (Jackson County) eastward to Elytheville (Mississippi County) and northward to Pochontas (Randolph County).									
Newport - Jackson County	25	5:00 p. to 5:07 p.	1	400	0	0	5		Wind
About 30 portable buildings destroyed in yards of Morgan and Fullins Companies. Also 4 planes badly damaged. All damage at old Newport Airbase, 6 miles northeast of Newport.									
McDougal - Clay County	25	5:10 p. to 5:20 p.					4		Wind
Trailer home flipped over three times and completely demolished. Also damage to some farm buildings.									
<b>California</b>									
Coronado 12 SW	3	4:35 p.m.			0	0	0	0	Waterspout
Pilot reported waterspout 12 miles southwest of Coronado.									
Santa Ana	4	Approx. 10:00 a.m.			0	0	0	0	Funnel Cloud
Pilot reported funnel cloud near Santa Ana.									
<b>Colorado</b>									
Southwestern Mountains	1-3				1		4		Heavy Snow
Heavy snows closed highways in several areas and contributed to numerous minor accidents. An operator of a bulldozer was killed about noon of the second when the machine was swept from the highway and demolished by a snow slide on Red Mountain Pass 5 miles south of Ouray.									
Larimer County	24	3PM					4		Wind
High winds caused collapse of a hangar and destroyed or damaged seven private planes at an airport east of Fort Collins. Other minor damage occurred along the foothills from Denver northward. Wind gusts to 60mph were reported at Denver and Fort Collins.									
Boulder	29	PM					4		Heavy Snow
Heavy snow accumulation caused collapse of a carport at an apartment in Boulder, damaging 11 automobiles.									
<b>Connecticut</b>									
Statewide	29	6AM-10PM			0	0	5	0	Snow
Historic Easter Sunday storm began as rain in south and snow in north but soon turned to exceptionally heavy snow interlaced with sleet and hail in some places. Storm totals ranged from .6 to 2.2 inches and new snowfall from 5 to 14 inches, exceptionally heavy for so late in the season. Falling temperatures and strong winds combined with the snow to make roads treacherous and numerous accidents resulted. With only a few exceptions, schools were closed on the 30th.									
Statewide	31	5AM-2PM			0	0	5	0	Snow
Second intense storm in two days produced new snowfalls of 2 to 6 inches and again snarled traffic, caused a rash of accidents and closed many schools.									
<b>Delaware</b>									
State		Most of day			0	0	0	0	Rain
The Easter Sunday rainfall totaled one inch or more at most cooperative weather stations. The heaviest total was 2.36 inches at Selbyville.									
<b>Florida</b>									
Ft. Lauderdale	2	3:30p							Funnel aloft
Kissimmee Osceola County	5	1-3:00 a			0	0	4	0	Damaging wind
Winds estimated at 80 mph. Two boats sunk, others had minor damage. Several piers destroyed. Damage set at \$7,500.									
Lakeland Polk County (15 miles north)	5	10:40a			0	0	3	0	Damaging wind
One trailer home overturned, one home deroofed. Gusts to 49 mph.									
Orlando (3 mis. SSW)	5	11:30a			0	0	4	0	Damaging wind
12-15 houses sustained minor damage from small "twister". Trees, antennas, roofing downed.									
Titusville Brevard County	5	12:32p	1.9	333	0	7	6	0	Tornado
Twelve houses with total loss damage; 37 others with damage ranging from 50-90%. \$1,400,000 estimated loss includes \$40,000, telephone; 40,000, utility; 10,000, gas. Remainder is from real and personal property loss. Gusts to 75 mph reported by Kennedy Space Center.									
Miami Beach (13 mis. SSE Ft. Lauderdale)	5	4:30p			0	0	3	0	Tornado
One house unroofed, power lines, trees downed. One trailer damaged.									
Fort Myers	7	5:17p							Wind
Minor damage to houses and power facilities.									
Destin (6 mis. S. Valparaiso)	8	5:40p							Funnel aloft
Eastpoint (5 mis. E. Apalachicola)	11	4:00p			0	0	4	0	Waterspout and wind
Gusts to 54 mph and high tides. Docks damaged, boats suffered minor damage. Total estimate at \$15,000.									

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS	
<b>Florida (continued)</b>									
Tampa (vicinity) (15-45 mi. SSW)	11	6:40-7:30p							Wind
Osprey Sarasota County	11	7:45p			0	0	3	0	Tornado
Damaged two small cars, 12 trailers had minor damage.									
Jupiter Palm Beach County	26	1:30p			0	0	3	0	Tornado
Touched down in wooded area earlier with little damage. An hour later touched down overturning a trailer. Other damage included downed power lines and trees with minor house damage.									
Naples Collier County	26	1:40p							Damaging wind
Gusts to 62 mph. Minor damage only.									
<b>Georgia</b>									
Banks County 35 miles N. of Athens	5	4:00 p							Funnel Cloud
Apparent tornado reported by aircraft but no evidence of damage on ground. Funnel aloft also sighted by motorists in same general area.									
Statewide	18-22				0	0	5	0	Heavy rains, wind and lightning.
Very heavy rainfall over most of the State caused flooding of many small streams and resulted in damage to bridges, roads, business property and residences. The five-day rainfall, most of which fell on the 19th and 21st, totaled 4 inches over at least one-half the State and exceeded 6 inches in several west central counties. Totals for the period were less than 2 inches in only a few counties in the extreme south and southeast. Strong winds were reported in several areas and lightning started fires destroyed at least 2 homes.									
Cataula, Harris County	20	8:30 a	2	100	0	1	4	0	Tornado
One home was demolished and one damaged. The injured person and his father observed the funnel as it approached their home. The house and all furnishings were destroyed. Several trees were uprooted. Storm moved from west to east.									
Jesup	29	5:00 a			0	0	5	0	Hail
Golf ball size hail damaged roofs, windows, neon signs and shrubbery. An estimated hundred buildings suffered major roof damage and hundreds of windows were broken within the city. Shrubs and trees were heavily damaged in some areas and many neon signs were broken.									
Savannah	29	4:30 a			0	0	7	0	Hail
One-half to 3/4 inch hail reported in south Savannah. Ground covered with 1 to 1 1/2 inches of hail some areas.									
Southwest	30	pm			0	2	5	0	Windstorms
Windstorms caused property damage in at least 3 southwest Georgia counties and resulted in minor injury to 2 children. Two small children suffered lacerations when a mobile home was overturned at Newton, in Baker County. Several plate glass windows were also broken and numerous trees were uprooted in the Newton area. The roof was blown from a farm equipment company building and a barn was destroyed north of Leesburg. Roofs of 2 residences were damaged and an equipment shed was blown down near Warwick, in northern Worth County.									
South	27-31				0	1	5	5	Heavy Rains
The second period of very heavy rainfall occurred over most of south Georgia within two weeks. Totals were 4 inches, or more, over a 3 or 4 county wide area extending from about Fort Gaines to near Augusta. Another section in the extreme southeast received over 4 inches and the entire area south of the fall line had more than 2 inches during the 5 day period. A small area in the northern part of the southwest climatological division received over 8 inches of rain. Roads, streets and bridges sustained heavy damage in many areas. Some sections of Albany and Newton were flooded by the overflowing Flint River. One person was injured in Elsie County when the road caved in as he drove over it. Newly plowed farm land was badly washed and sanded. Considerable tobacco acreage had to be reset and some corn replanted.									
Hawaii					None reported				
Idaho Northern Half of State	1-2	Entire Days	50-150	*300	0	0	?	0	Snow
This two day snowstorm provided generally 6 to 10 inches of wet snow across the northern half of Idaho. The Camas and Palouse prairies were heavily blanketed and glazed highways resulted in numerous minor accidents on hills and grades except for the lower reaches of the Lewiston-Clarkston Valley. New snow cover of 8 to 10 inches was common across Kootenai, Benevath, and Latah Counties with greatest depth of 10 inches in the Pdtlatch area.									
<b>Idaho (continued)</b>									
Eastern Highlands	16-17	2:00 p., 16th-9:00 a., 17th	200	*50-80	0	0	?	0	Snow
The Eastern Highlands border area of the State generally received from 4 to 6 inches of snow with up to 10 inches reported at Island Park Dam in Fremont County. This St. Patrick's Day storm was accompanied by strong winds and caused blizzard conditions in the higher country of Clark County. Travel was at a standstill in the Kilgore area where school closure on the 17th was caused by blocked roads. A Piper Super-Cub flying through the Montpelier area bound for Alaska was forced by blizzard conditions to a safe landing on a roadway in the South Wardborough area. A 4-inch snow depth at Pocatello was the largest single snowfall in what had been a dry winter in the area.									
Southern One-Third of State	24	8:00 a.,-6:00 p.	200	*100	0	0	4	0	Wind
Strong westerly winds accompanied the passage of a storm system across southern Idaho. Scattered damage resulted from winds estimated at 50 mph in many areas of Twin Falls, Jerome, Cassia, Minidoka, and Oneida Counties. The Burley FAA Flight Service Station recorded gusts from the west hitting 65 mph at 9:45 a.m. These strong winds ripped 300 square feet of metal roofing from the roof of a new Frozen Food Storage Plant in nearby Heyburn. A part of the roof broke off a power pole and caused closure of two shifts employing 300 people each. Blowing dust from the storm caused auto and truck accidents near Mc. Home, Burley, Rupert, and Idaho Falls. A section of Interstate 80 between Cottrell and Snowville was closed between 10:20 a.m. and noon due to blinding dust. Numerous trees were down causing telephone outages. The roof was blown off an amusement center north of Twin Falls and a truck was damaged when blown from Interstate 15, about 1.5 miles north of Idaho Falls.									
Illinois	25-26				0	3	5	0	Snow, wind, lightning, hail
An intense storm system moved across Illinois during the afternoon of the 25th and morning of 26th. Heavy wet snow damaged utility lines and snarled traffic in the north, especially in the northeast where from 8 to 14 inches of snow fell. Southern Illinois was hit with highwinds, lightning and hail, and possible tornado, during the early evening of the 25th. Heaviest damage was to trailers overturned and utility lines hit by broken limbs or falling trees. Lightning caused several fires including major damage to a motel north of Cairo.									
Indiana					None reported				
Iowa					None reported				
Kansas					None reported				
Ford County	2	2:30 p.	7	?	0	0	3	0	Hail
Hail up to 1" diameter covered the ground to a depth of 2 inches at Kingsdown.									
Lincoln and Ottawa Counties	2	6:15 - 7:10 p.	25	Narrow	0	0	0	0	Tornado
Tornado, on the ground intermittently, moved northeastward at 27 m.p.h. from just south of Vesper to 3 mi. NE of Lincoln to near Ada.									
Harvey and Marion Counties	2	10:58 p.-11:35 p.	24	50-210	0	10	6	0	Tornado
Tornado, on the ground intermittently, moved northeast and north-northeast at 25 m.p.h. from 5 mi. east of Newton to 3 1/2 mi. west of Peabody to the northeast edge of Marion. Estimated damage was \$600,000, mostly in Marion. Nine farm homes in Harvey and Marion Counties were damaged.									
Marion County	2	11:30 p.							Funnel aloft
Funnel aloft occurred at Marion at same time a tornado hit that community (see tornado report, above).									
Southern one-third	15-16				0	0	4	0	Snow
An intense spring storm dumped 8 to 18 inches of heavy, wet snow over most of the southern one-third of the State. Unofficial reports of snow totalling 30 inches were received from the Galena-Baxter Springs area. Several buildings collapsed due to the weight of the snow.									
Gray and Haskell Counties	15-16	Night of 15-16			0	0	4	0	Lightning
Damage occurred in northeastern Haskell County and at Montezuma.									
Kentucky Laurel County	11	night			0	0	4	0	Lightning
A broiler house, apparently hit by lightning, burned together with the 5,400 five-day-old chickens it housed.									

See reference notes at end of table.

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					KILLED	INJURED	PROPERTY	CROPS		
<b>Kentucky (continued)</b>										
West	16					?	?	?	0	Heavy snow
		Heavy snow fell on much of the western quarter of Kentucky, beginning late on the 16th and ending on the 17th in most sections. 24-hour totals from 5 to 10 inches were common along the Ohio River from the western river counties to east of Owensboro. The 24-hour total of 13.0 inches at Henderson on the 17th set a record for a 24-hour period at that location, and was one of the greater 24-hour falls of record in Kentucky. The snow caused a great deal of inconvenience, closed some schools and business establishments, but was responsible for relatively little damage according to reports received. The snow melted rapidly, by 6 p.m. of the following day, the 18th, there was no measurable snow on the ground at Henderson.								
Ballard County	25	7:45 p.								Funnel cloud aloft
		Funnel cloud reported by public moving northeast 4 miles south of Kevill, Kentucky.								
State	25	night			0	0	4	0	0	Wind, lightning
		There were numerous thunderstorms over the State, and strong gusty winds were reported from a number of areas. A Weather Bureau recording instrument at the Cooperative Station at Somerset recorded winds of 53 m.p.h. from the south-southeast (approximately 2:15 a.m., 3/26/70) in the area (Pulaski County) one barn was blown down, another unroofed, and a number of TV antennas were downed. In MacCracken County, a warehouse was unroofed. In Calloway County a tree fell on a mobile home, and a concrete block wall was blown down; a barn burned, apparently set afire by lightning.								
	29					?	?	?	0	Snow
		The Easter snowfall of March 29th was one of the greater 24-hour snowfalls of record so late in the season in some northern areas. Totals ranged from one to about 8 inches in the northern two-thirds of the State, the largest totals in general in the north. The snow was responsible for hazardous driving conditions, but had mostly melted by 7 a.m., March 29.								
<b>Louisiana</b>										
Northwest, North Central and East Central Divisions	3	morning-evening			0	1	5	0	0	Wind, rain, lightning
		Squall line moved into northwest parishes during morning. Heavy thunderstorms with strong winds damaged numerous older buildings, broke windows in Caddo and Bossier Parishes around 9 a.m. Heaviest damage to roller rink at Red Chute, just east of Bossier City, and to two barns and silo on farm 3 miles northeast of Bossier City. One man injured by glass from wind-shattered window in downtown Shreveport. Barn destroyed by wind 3 miles south of Calhoun, Ouachita Parish about 12:15 p.m. Squall line continued across central portions of state during afternoon with locally heavy rains. Lightning struck 3 homes in Baton Rouge area, with resultant fire completely destroying one. Hourly rainfall between 5 and 6 p.m. at WBO, Baton Rouge was 2.75 inches. In Washington Parish community of Plainview (between Bogalusa and Franklinton) winds ripped roof from barn and caused slight roof damage to home.								
Beauregard Parish	17	4:55 a.m.			0	0	3	0	0	Tornado
		Small tornado, moving southwest to northeast, touched down in rural area some 5 miles southeast of Singer, moved up road damaging home roof and chimney, barn roof, and shattering outbuildings. Electrical highlines blown down.								
St. Mary Parish	17	8:30 a.m.	Short Narrow		0	12	5	0	0	Tornado
		Small tornado swept through small area of Patterson. Auto and tractor-trailer truck "flooded" off U.S.90. Two houses completely demolished, a third damaged, while another less than 30 yards away untouched. One house "exploded", the other went "straight up into the air". Utility poles splintered. Two house-trailers flipped over.								
<b>Maine</b>										
Augusta to Houlton	8				0	0	4	0	0	Snow, wind
		Storm affected a fairly wide band extending from Augusta to Houlton. Winds to 50 mph were reported. At Bangor 6 to 9 inches of snow was whipped into 2-ft. drifts. Drifting of snow caused widespread problems in plowing and sanding roads. One death was storm related, occurring when a car skidded from Rte. 4.								
Southwest, Central	23	Early A.M.			0	0	0	0	0	Glaze
		Freezing rain iced road surfaces and produced hazardous driving conditions. School sessions were cancelled in some towns in the Portland area.								
<b>Maryland</b>										
Central portion, including Washington D.C. Metropolitan Area	26	Late afternoon and evening			0	0	6	0	0	Wind
		A line of thunderstorms associated with a rapidly moving cold front brought strong, gusty winds to scattered areas. A bridge being constructed over Rocky Gorge near Laurel, was toppled and a falling beam smashed into the booms of two cranes; total damage was estimated between \$500,000 and \$800,000. At Andrews Air Force Base a hangar wall collapsed, causing considerable damage both inside and outside the hangar estimated at \$200,000; over 10 automobiles in a parking lot were found with their windows blown out on one side. The weather station at Andrews AFB reported gusts to 51 knots while unofficial estimates included gusts to 70 knots. In other areas there were reports of scattered damage, mostly by falling trees.								
Western portion	29	Early morning to mid-afternoon			0	0	0	0	0	Snow
		The Easter Sunday storm brought heavy snow up to 10 inches in Western Maryland and mostly rain elsewhere. A check of the files at Cumberland Evening Times indicated that only once in the past 70 years had an Easter Sunday snow paralleled this one and that was on March 27, 1932 when only 2 inches fell in Cumberland but totals as much as 16 inches were reported in nearby areas such as Frostburg. Some interruption to power and telephone service was reported.								
<b>Massachusetts</b>										
State	4-5	Night			0	0	0	0	0	Glaze
		Freezing rain iced surfaces up to 2 inch thick in many areas. Hazardous driving conditions caused cancellation of schools in many communities.								
North Adams	11	Evening			0	0	4	0	0	Wind
		Strong wind blew a large section of roof across the street, smashing it into the side of an apartment house, with extensive damage to both buildings.								
Central, Western	26-27				0	0	4	0	0	Rain, wind
		Heavy rain caused the overflow of some small streams and some washouts. Wind gust to 60 mph at Chester in a thundersquall. Wind damage scattered and mostly minor.								
Eastern, Southeastern	26-27	Night			0	0	4	0	0	Wind, lightning
		Strong winds with gusts to 60 mph or higher with widespread minor damage. Thunderstorms were the first of the season in most areas. A house in Acushnet was somewhat damaged by lightning.								
State	29	P.M.			0	0	5	0	0	Snow
		In much of the central and east this was the heaviest snowstorm of the season. Amounts of 5 to 10 inches were common, with 13 inches at Maynard. At least in parts of the east this was one of the heaviest snows of record for so late in the season. Airports were closed during the evening. Road traffic was hazardous. Monstrous snarls developed and many cars were abandoned on the highways. Many traditional Easter activities were greatly curtailed.								
Eastern	31				0	0	4	0	0	Snow
		Second major snowstorm in three days dropped mostly 5 to 10 inches, with up to 12 inches locally near New Bedford. Many southeastern areas exceeded the Easter Day totals. In a period of about 60 hours, these two storms together dropped about 50% of the normal seasonal snowfall over the Cape Cod area. The combined total was a new record total for so short a time so late in the season. Traffic was again hampered but road crews were better prepared to handle this second storm.								
<b>Michigan</b>										
Eastern Upper Peninsula	3-4	PM-AM			0	0	5	0	0	Freezing Rain
		Believed to be one of the most damaging ice storms in history of eastern U.P. Ice accumulation of 1/2 to 3/4 inch snapped power and telephone lines leaving more than 50,000 people without electricity. Trees suffered extensive damage.								
<b>Minnesota</b>										
Southern Minnesota	19th & 20th				0	0	0	0	0	Heavy Snow
		Heavy snows of 5 inches and more fell on the 19th and early morning of the 20th across all southern Minnesota from Minneapolis south. The heaviest snowfall in this area was 10-12 inches on a 10 mile wide line from the southwestern corner of Minnesota northeast to Springfield which closed many schools and blocked most county roads for a day or so.								

See reference notes at end of table.

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Mississippi									
Northwest Mississippi	3				0	0	?	0	Thunderstorms, Wind, Heavy Rain
<p>Newspaper reported "High winds and fairly heavy rains along with some small hail battered large portions of the state during the afternoon." Radar at 11:45 a.m. indicated a solid line of heavy thunderstorms from Oxford, Lafayette County to Tutwiler, Tallahatche County and extending into Arkansas (10 S Dumas to Lake Village, thence into Louisiana); this line moving to E at 45 m.p.h. At 12:45 p.m. radar indicated a solid line of heavy thundershowers 20 miles wide from Oxford to Tutwiler to Indianola, Sunflower County, to Hollandale, Washington County and extending into Louisiana (Delhi, etc.); this line moving ESE at 30 m.p.h. At 1:45 p.m. radar indicated a solid line of heavy thundershowers 20 miles wide from Grenada, Grenada County; to Lexington, Holmes County; to Yazoo City, Yazoo County; to Vicksburg, Warren County and extending into Louisiana (Ferriday); this line moving SE at 40 m.p.h. COAHOMA COUNTY: Thunderstorm brought heavy rains to the county. Newspaper noted "A total of 3.8 inches of rainfall was recorded in Clarksdale for the 24-hour period ending at 7 o'clock. . . ." March 14th, "and many sections of Clarksdale were heavily flooded." The Clarksdale Mayor "stated that Tuesday's downpour was 'the most damaging I've seen in many years. We have crews but patching streets and cleaning out inlets this morning (March 14th), but it'll be another month before we will be able to get anywhere near a true picture of the damage — heavy though we know it was — that was really inflicted."</p> <p>BOLIVAR COUNTY: County newspaper reported ". . . winds swept through the Cleveland area. . . about 12:30 p.m. causing considerable damage. Cleveland High School reported 10 window panes broken. . . . A ticket booth on the football field was also turned over. . . . Two cooler panes at the Goodyear Store were shattered. . . ." Man on North Bayou Road reported small, unoccupied, portable building picked up by the strong winds and carried across the road. See also separate listing for near Boyle. WASHINGTON COUNTY: Reported wind damage lay along a line from W towards E. The path of the destructive winds in the county was about 14 miles with width 50 to 100 yards. Newspaper reported "a large billboard. . . collapsed on a small car two miles west of Greenville, when its support poles snapped in the winds." On U. S. Highway 82 between Greenville City limits and the Greenville bridge (lat. 33.4°N, long. 91.1°W) a house trailer (unoccupied) was overturned near noon and reported demolished. Another newspaper indicated "the high winds also did extensive damage to several other residences, house trailers, and farm buildings, just south of Greenville. . . ." Greenville newspaper noted "High winds skipped down U. S. 82 E and then through Leland. . . . Three house trailers in the vicinity of the Jeter Egg Farm on U. S. 82 E. were damaged by the high wind and rain." A man reported "There are many billboards along HWY 82 between Greenville and Leland. Many were untouched, while some of the strong ones were demolished." One large substantial billboard was 40 5 large telephone poles which were snapped or broken up by the strong winds (lat. 33.4°N, long. 90.9°W). Leland newspaper noted "A black cloud moving into Leland from the southwest a few minutes after noon. . . brought with it winds strong enough to demolish. . . carwash on U. S. 82" (just inside city limits). "In the path of the storm from the carwash on northeast across town, four cotton trailers were overturned. . . and a small stackstack blown down; a large tree was uprooted. . . on California (Avenue); an awning was blown partially off. . . and a house had part of the roofing blown off. At the . . . service station next to the demolished carwash, a plate glass window was sucked out of its mounting, rather than blown into the building. . . . The roof of the carwash was blown off and several concrete block walls were toppled over. Other minor damage around town included limbs blown down, children's swing sets overturned, trash cans and signs overturned, and windows cracked." The local TV station's lines were knocked out at 12:10 p.m. (lat. 33.4°N, long. 90.8°W). On U. S. 82, 4 E Leland, only one sign remained of a three-sided barn and several cotton trailers had been overturned. The Agricultural Meteorologist at Stoneville estimated the damages at \$10,000 or less. He wrote "The clouds immediately before the rain were very dark but not unusually dark for spring storms in this area. . . . I do not recall any unusual thunder although the tree tops were quite active." He mentioned a "loud roar heard in Greenville and by others. I could not be sure that the roar was not the approaching downpour through the wooded area in which I stood."</p>									
Bolivar County	3	12:30 p-12:31	1	6 to 25	0	0	2	0	Tornado
<p>Storm moved from SW towards NE. At 25 Boyle (lat. 33.7°N, long. 90.7°W) on Highway 61, most people noted one funnel; one man reported "2 very small twisters about one mile apart," he said the path of destructive winds was 1 mile long and 20 yards wide and "damage was small," he described a "sound like freight train." A man on Memorial Drive said that the destructive width on the ground was 3 yards, he wrote it "sounded like a train. Looked like a whirlwind only much more powerful. It uprooted cedar trees — whirled limbs out to the side. Twisted a Martin pole off even with the ground. Picked a heavy drum up and carried it about 60 ft.;" it "rained hard a few minutes before we heard the noise. After the storm hit every thing got still." Newspaper noted "south of Boyle, the wind picked up a mobile home causing the water line to the trailer to break. A pole holding a martin house was also bent to the ground. Broken branches and limbs were ripped off trees. On Memorial Drive two cedar trees were uprooted." The postmaster at Boyle received reports that the path of destructive winds was 25 yards wide and damages were estimated \$150,00.</p>									
Mississippi (continued)									
North Central, North-east, and East Central Divisions	19				0	0	?	0	Heavy Rain, Wind
<p>Showers and some heavy thundershowers occurred on 19th. Some reports of damage from heavy rain or wind. Some roads closed. Over 6 inches of rain fell over a relatively large area in the Columbus-west Point region; some evacuation due to high water. PANOLA COUNTY: Newspaper noted "Batesville schools were closed at mid-afternoon due to surface water problems following heavy rains Wednesday night (16th) and Thursday morning (19th)." GREENADA COUNTY: Newspaper noted "with all of the rain of Thursday (March 19th), the creeks and rivers couldn't hold the water and put a great deal of it on the roads in the Grenada County area. Some county roads were flooded and halted transportation around some areas, including the Tie Plant area." The County Soil Conservation Survey Office indicated that besides flooding, much damage was done to fences, roads, ditches and drainageways. TIPPAH COUNTY: County Agricultural Agent reported "Creeks are overflowing, washing away field roads and bridges." CLAY COUNTY: Newspaper noted West Point rainfall between 5:15 a.m. and 5:50 a.m. totaled 1.36", 2.36" at 6:50 a.m., 4.36" at 10:05 a.m., 5.5" at 11:05 a.m., 6.17" at 11:55 a.m. while 9.51 inches was reported for the day. Many streets in West Point were flooded, but all were reported to be passable. A number of cars stalled throughout low spots in the city. Many homes in the west Point area were completely surrounded by the backed up water as storm sewers in the city were unable to cope with the heavy rain. City Street Department Superintendent said "The water did considerable damage, but we don't know exactly how much yet." There was washed out portions of roads and some damage to 2 or 3 bridges. The Headou Hill Subdivision was one of the hardest hit sections by the early morning flash flooding; several residents had to evacuate, others used boats and outboard motors. At approximately 10:45 a.m. workers at the Clay County Health Department Office were evacuated from the building on Highway 45-A as high water around the building continued to rise. LOWNES COUNTY: On the 19th Columbus newspaper indicated "The downpour began about 3 a.m. this morning and many local citizens claim hail fell for a short time. . . . Rain fell heavily between 7 and 8 a.m." City drainage facilities were quickly overtaxed and flooding occurred in South Columbus. Newspaper reported "roads were blocked, homes flooded, some schools were closed, motorists were stranded. . . ." Most area streams overflowed on 20th and 21st. The Luxapallia River crested at 30.9 ft. on 21st, the highest mark since 1949. Telephone service in some parts of East Columbus was disrupted by rising waters and mail delivery to 250 homes was stopped by the flooding. From 7 a.m. of 19th until 7 a.m. of 20th, 5.65 inches rain fell at Columbus A.P.E. Man, about 50-years old, drove a 1956 auto along Loxapallia Avenue, Columbus when he was warned to detour around area. The man ignored the advice and attempted to drive on Airline Road through about 3 ft. of water about 8:45 a.m. The swift currents of the Luxapallia River, reported the Columbus Police Chief, "swept the car off the road and veered it into the flat. I saw the man open the door and he bobbed up just once before he disappeared." His body was found later. Also a 60-year old man passenger got out of the nearly water-covered automobile and after gaining footing on the road in waist deep water, was rescued by a bystander. NOXUBEE COUNTY: Body of 17-year old girl discovered Friday (20th) in a rain-swollen ditch near her home in the Deerbrook Community near Brooksville. Sheriff said the girl apparently slipped into the deep water and couldn't get out because of the steep banks on either side. KEMPER COUNTY: Highway Patrol reported one tree blown across Highway 16 near County line between Philadelphia, Neshoba County and DeKalb. (lat. 32.8°N, long. 88.8°W).</p>									
Upper Delta and Lower Delta Divisions	25				0	0	?	0	Hail, Wind
<p>Newspaper noted "A gold front pushed through Mississippi Wednesday (25th) and generated numerous thunderstorms and rain occurred in north Mississippi. Some hail and damaging winds were reported but there was no extensive damage." A line of severe thunderstorms was indicated by radar at 7:05 p.m. from 10 N Greenville northward to 20 S Memphis, Tenn.; at 7:35 p.m. from 22 S Memphr, La. northeast to Clarksdale; at 7:45 p.m. the line, 18 miles wide, from La. into Ark. (Lake Village) then to Minter City northward to Sardis; at 8:45 p.m. the line, 20 miles wide, from Alexandria, La. northward across Rolling Fork to Itta Bena to Potts Camp; at 9:00 p.m. a line of severe thunderstorms was indicated by radar between Ripley, Greenwood to Rolling Fork and moving southward. BOLIVAR COUNTY: County Agricultural Agent reported light hail around 7:30 p.m.; no noticeable damage. The Highway Patrol unit at Cleveland (lat. 33.7°N, long. 90.7°W) reported rather intense 3/4" hail at 7:33 p.m.; the hail ended before 7:55 p.m. SUNFLOWER COUNTY: County Agricultural Agent reported a storm moved from west toward east and ended about 8:00 p.m. Hail fell at approximately 7:30 p.m. at Drew and covered ground up to a depth of 1 inch; average diameter was 1 inch and diameter of largest stone 1 1/2 to 2 inches. Highway Patrol reported at 7:55 p.m. that 3/4 inch hail had occurred at Mileville. LEFLORE COUNTY: Newspaper noted "winds up to 35 miles-per-hour were clocked in Leflore County last night (of 23th). The gusts which followed a thunderstorm pattern across the state knocked down power lines of Delta Electric Power Association near Schlater and Minter City, M. E. Talley, service superintendent said eight to ten poles near Cole's Store on Highway 49 and Fee Dee Plantation were toppled from the wind. . . . The showers which passed over the county about 8 p.m. dumped less than one-half inch of rain." Highway Patrol reported at 8:45 p.m. telephone lines down at 13 N Greenwood, at Schlater (lat. 33.7°N, long. 90.4°W) due to high winds.</p>									

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS				ESTIMATED DAMAGE	CHARACTER OF STORM
					KILLED	INURED	PROPERTY	CROPS		
Missouri										
Bowling Green, Warrenton, Wright City, (Pike and Warren Counties)	3	8:50 PM								Thunderstorm
Highway Patrol reports marble-size or larger hail near Bowling Green, Warrenton and Wright City. Hail covered the ground at Warrenton and Wright City.										
Southern quarter of Missouri	16-17							5		Snow
A late winter storm brought 15-25 inches of snow to an area bounded by a line through Carthage, Springfield, Mountain Grove and West Plains. The remainder of the southern quarter of the state had from 6 to 12 inches. Damage to roofs, docks and awnings from heavy snow deposit.										
Poplar Bluff, 10SW	25	5:00 PM						4		Tornado
Damage occurred to timber and outbuildings in an area on Highway V southwest of U.S. Highway 67-160 junction, 10 miles SW of Poplar Bluff as a funnel cloud touched down briefly.										
Parma to 4-1/2 miles W. of Kewanee, New Madrid County	25	6:15 - 6:30 PM						4		Thunderstorm
Intermittent wind damage along a west-southwest-northeast path from 1 mile north of Parma on Highway 153 to a point on Route Y 4-1/2 miles west of Kewanee, where farm buildings were destroyed and a house severely damaged.										
SE Pemiscott County	25	7:20 - 7:44 PM	15					4		Tornado
Damage to several farms, power lines and poles occurred when a small funnel cloud touched down intermittently from a point just north of Highway M (2 miles west and 2 miles south of Holland, Missouri) eastnortheastward to cross U.S. highway 61 1 mile south of Holland, passing 1 mile north of Coates and continuing to a point on the Levee Road 4-1/2 miles south of Canuthersville.										
Montana										None reported
Nebraska										
Antelope County	2	8:30p	--	--	0	0	0	0	0	Hail
Light hail at a number of points in eastern Nebraska. Most stones 1/2 inch or less in diameter, but some reached 1 inch in diameter at Neligh.										
Nevada										
Las Vegas Valley	26	4:00 PM			0	1	4	0		Wind, Sand storm
Shortly after 4:00 PM, strong gusty surface winds, associated with a cold front passage caused local damage to power lines, signs, roofs, trees and telephone poles and people at ground level. Wind in excess of 50 MPH reduced visibility as to slow down vehicle traffic to a point of not being able to see ahead. One motorcyclist was picked up by the wind and thrown down, but injured only slightly.										
New Hampshire										
State	4-5	Night			0	0	0	0		Glaze
Freezing rain coated surfaces up to 1 inch thick with ice in some areas in the south. Roads very hazardous.										
Central	21				0	0	4	0		Snow
Heavy, wet and sticky snow, mostly with 5 to 10 but locally up to 14 inch accumulations, broke many trees and limbs. Utility lines were snapped by falling trees and limbs in some communities.										
New Jersey										
Northern third of the State	29-30							5		Heavy snow.
A late season snowstorm on Easter Sunday brought an average of 9 inches of snow to the northern third of the State, with amounts up to 14 inches at some locations, especially in the northwest. Temperatures had been in the upper 60s on the 26th, and following the snowstorm, readings dropped to as low as 2 degrees above zero on the morning of the 30th.										
New Mexico										
Bernalille County	27	10:36 a.	Short Narrow					1		Tornado
Tornado 3 miles south of Albuquerque Sumport in uninhabited area moved toward northeast. Ball washing machine at golf course overturned. Funnel visible for a few minutes.										
De Baca County	27	1:55 p.								Funnel cloud
Pilot reported funnel cloud about 75 miles north of Roswell.										
State	27	afternoon						?		Blizzard, wind, dust
Fast moving cold front preceded by strong winds accompanied by blowing dust and areas of snow in north and east. Up to 8 inches of snow in east-central part of state with drifts in Clovis-Portales-Fort Sumner area. Several highways closed, over 100 travellers stranded, and many highway mishaps, especially in Clovis and Encino areas. Winds from 40 to 60 m.p.h. in Albuquerque, Alambordo-Tularosa, Deming-Las Cruces, and Carlsbad areas with blowing dust contributing to near zero visibilities and numerous highway accidents. Wind damage to trees, signs and glass mostly minor. Single engine plane force landed on road near Corona, and some scheduled airline operations cancelled.										
New Mexico (continued)										
Guay County		30	4:50 p.	Short Narrow				2		Tornado
Substation observer reported a small funnel dipped at San Jon and picked up a semi-trailer truck used for freight storage and then dropped it on its side. The funnel then raised and caused no further damage.										
New York										
Scattered areas	26-27	p.m. to early a.m.						4		Wind
High winds (peak gust of 63 mph. at Buffalo) caused widely scattered property damage across southern half of the State. Trees, power lines and plate glass windows damaged in wide areas of Erie and Niagara Counties in western New York and in Rome-Utica areas of Oneida County. House trailer blown five feet off foundation near Norwich but occupants uninjured. Barn unroofed and power lines downed near Middletown in lower Hudson Valley. Winds piled ice into great windrows 20 to 40 feet high in northeastern end of Lake Erie.										
Southeast	29	7 a.m. to late p.m.								Snow, freezing rain
Coastal storm, beginning with freezing rain and sleet, changed to snow by late morning. Snow yields of 6 to 12 inches or more widespread in lower Hudson Valley and Catskill region, decreasing to 1 to 2 inches as far west as Binghamton and Utica areas and northward to Albany. New York City had heaviest Easter Sunday snowfall since 1915 as coastal areas received 2 to 4 inches on top of freezing rain. Highway travel very hazardous throughout southeast quarter of the State as Easter Sunday activities cancelled or greatly hampered. Air traffic into New York City reduced most of day due to iced runways and poor visibility.										
North Carolina										None reported
North Dakota										None reported
Ohio										
Southwest Areas	12-13	evening to morning			0	1	?			Snow
Snowfall of up to 5 inches caused traffic jams and accidents in Greene, Warren, Clinton and Butler counties. A tie up involving dozens of autos and trucks near 1-75 in the Mason area prevented ambulances and rescue squads from getting to an injured person. Highway patrol post 9 at Hamilton reported 40 accidents in their area alone.										
Statewide	26	morning to evening			0	7	6			Wind
Winds caused widespread damage and at least 7 injuries. Trees, utility lines, plate glass windows and TV antennas bowed to winds of up to 69 mph. A new reservoir at Hindlay received \$11,000 damage when high waves washed away part of a retaining wall. The water level in Lake Erie off Ottawa County dropped 3 feet in one hour. Three Elyria residents received wind related injuries. The most serious was to a woman standing in front of a plate glass window that was blown into the store by the wind. An Ashtabula man was injured when the wind blew a limb into the windshield of his truck. Two Norwalk men were injured when a wall collapsed on them. Several mobile homes were upset in the Fremont area. Winds gusting to 60 mph leveled a partially completed warehouse in Toledo causing \$250,000 in damages. A Toledo woman was treated for head injuries as she was blown into the side of a slow moving bus.										
Southern Half of State	29	morning			?	?	?			Snow
Snowfall amounts of 6 to 10 inches were common in portions of the southwest, south central, and southeast Climatic Divisions. This heavy snow area was bounded along and approximately 25 miles south of a line between Chilo and Barnesville. Most remaining areas in the southern half of the State recorded 1 to 4 inches of snow from this late season storm.										
Oklahoma										
Lake Eufaula, McIntosh County	2	8:30p.			0	1	0	0		Lightning
Woman injured when struck by lightning while talking on telephone at her home on Lake Eufaula.										
North-central and Northeast parts of State	16-17	AM, 16-17			0	0	6	0		Snow
A heavy snowstorm struck the north-central and northeast parts of the State on the 16th before ending in the northeast on the morning of the 17th. Several official weather stations in the northeast reported 15 inches or more snow on the ground on the morning of the										

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM	
					KILLED	INJURED	PROPERTY	CROPS		
Oklahoma (continued)										
										17th. Nowata, in Nowata County north of Tulsa, measured 18 inches and an unofficial 23 inches were reported on the ground at Culpaw, in the extreme northeast corner of the State. Hundreds of motorists were stranded—300 at Blackwell alone, airline traffic halted at Tulsa, several schools closed, streets damaged, and a number of buildings damaged as roofs collapsed under the weight of the wet snow. The greatest single damage report was \$350,000 to a bowling alley in Tulsa. In Nowata, a bowling alley received \$80,000 damage when the roof caved in.
Oregon			None	reported						
Pacific			None	reported						
Pennsylvania										
Central Penna.	12	Day				7	4			Snowstorm
										Eight to 13 inches of snow caused numerous fender-bender traffic mishaps. Traffic snarls were reported in many areas. At least two people were seriously injured. One person was involved in an accident near Port Matilda and an Altoona man was pinned between two cars while trying to remove snow from his car. Three people were injured in a crash on Route 22 near Indiana and two persons were seriously injured when they caught their hands in a snow blower.
Centre and Blair counties	22	Day			1		4			Snow
										Wet snow caused minor accidents throughout the counties and one which claimed the life of a man on Route 144 near Snow Shoe.
Hazleton	22	Afternoon					3			Lightning
										Lightning caused damage to a phase wire and insulator on a 12,000 volt line.
Eastern Penna.	26	Afternoon - night			2		5			Wind, rain, lightning
										Intense rain, heavy wind, marble-sized hail and lightning accompanied the storm which resulted in fallen trees, interrupted electrical service and a variety of materials on highways. Dwellings and businesses were damaged. A building under construction along Route 422 at Womelsdorf in Berks County was wrecked by high winds. Damage was estimated at \$12,000. Near Landale, Montgomery County, a steel construction tower in an electric company's cross-country system was blown down. Near Darville the damage to a drive-in movie was estimated at \$30,000. Heavy downpours caused cave-ins at sewer ditches in the Bloomsburg area in Columbia County. Part of the roof of the Lebanon Vo-Tech School was blown off. Water leaking into the school caused considerable damage. The wind also overturned a trailer near Lebanon and lifted a roof from a ten-car garage. Flying debris from roofs caused much damage. At another drive-in theatre along Route 11 damage of \$5,000 resulted. In Duryea, Luzerne County, 70 mile per hour winds dove the roof of a lumber company into the fronts of four dwellings, demolishing two cars in the process. A camper truck was blown on its side near Pittston, resulting damage was extensive. In the same vicinity a large storage shed was moved by heavy winds. In Scranton two cars were hit by a falling tree. Two injuries were attributed to the storm when pedestrians on separate occasions were hit by cars. Several fires were reported on electric poles, caused by lightning.
Dauphin County	26	17:15 EST	3	50			5			Tornado
										10 houses were severely damaged by tornado-like winds in the 6800 block of Huntington Street in Rutherford Heights 5 miles east of Harrisburg. Thirty-three persons were forced to flee their homes. The tornado then skipped eastward about 2 miles. Along this path television aerials were bent, patios and carports were blown apart, windows were broken, and roof damage resulted. The tornado then dipped down again destroying the top of a barn and a man reported seeing the funnel cloud. Not actually touching ground the tornado moved southeast about a half mile where a barn actually exploded outward. Several trees 10-12 inches in diameter were uprooted along the storm path.
Puerto Rico										
			None	reported						
Rhode Island										
Statewide	29	8 AM-Mid			0	0	5	0		Snow
										This late season Easter Sunday snowstorm was the heaviest of the winter. Beginning as rain in the south, precipitation soon changed to snow. Falling temperatures and strong winds combined with the snowfalls of 5 to 8 inches to make driving treacherous and most schools were closed on the 30th.
Statewide	31	7AM-6PM			0	0	5	0		Snow
										Heavy late season snowfall of 5 to 7 inches caused second major traffic tie-up in two days. Once again most schools were forced to close.
South Carolina										
Beaufort County	29	06:00a.			0	0	4	3		Hailstorm
										Hail, from pellet size to 1 1/2 inches in diameter, broke several hundred window panes in the city of Beaufort and damaged heavily the newly planted tomato crop on St. Helena Island.
South Dakota										
Statewide	1				0	0	?	0		Ice
										Freezing drizzle or freezing rain caused icing over most of state. Ice 1/8 inch thick was reported in Rapid City area and heavier amounts were reported in the northwestern part of state. Some utility lines were broken but there was no extensive line damage. Some schools were closed due to iced roads.
Huron 7SE	2	9:00 p			0	0	0	0		Hail
										Hail of 1 3/4 inch reported. Golf ball size hail reported 5 miles south of Huron. No damage reported.
Webster	2	10:05 p			0	0	0	0		Hail
										Hail 1/2 to 3/4 inch reported. No damage reported.
Brookings	3				0	0	?	0		Local flooding
										Six Mile Creek went out of its banks flooding western part of Brookings but no serious damage reported. The Big Sioux River reached about 5 feet above flood stage south of Brookings but no serious damage reported.
Tennessee										
Nashville, Davidson County	4	6:15 p.m.			0	0	?	?		Hail
										Hailstones three quarters of an inch in diameter fell over a small area, 5 miles north of Nashville Municipal Airport. There was no known damage.
Most of State	25	7:00-9:00p.m.			0	1	5	0		Wind, lightning, rain
										Local thunderstorms hit various communities. Heaviest storm damage reported in Obion County. At approximately 7:45 p.m., a machinery shed was unroofed near the west edge of the town of Obion. A few hundred feet northeast of the shed, a mobile home was rolled over on top of a car, slightly injuring one person. Approximately six-tenths of a mile east of this point, at Highway 51, a section of roof was blown off the south side of a one-story office building. Plate glass windows in the front of the building were not damaged. At 8:00 p.m., high winds overturned a mobile trailer located at Midway community on Highway 22, approximately 6 miles southeast of Union City. Wind damage was spotty, and damage to roofs and power lines was reported at widely scattered locations. Some lightning damage. Both wind and rain diminished sharply and rapidly eastward.
Texas										
East Texas	Entire month				0	0	5	0		Flooding
										Minor to locally moderate flooding occurred on the Upper Trinity River during the entire month. Flood stages were reached at and below Dallas, but flooding was more pronounced and more prolonged along the lowlands of the Trinity from Trinidad to Long Lake. Along the Upper Trinity, rains totaling 1.50 to 3.50 inches fell during a 5-day period February 27-March 4. Light rains at the beginning of the period conditioned the soil so that run-off from the heavier rains that followed was considerable. Periods of intermittent rain later in the month generally amounted to less than one inch, except for rains slightly above 1.50 inches on the 17th. Most damage was to pastures and fences in the lowlands in the five counties bordering the river from Trinidad to Long Lake. These counties are Anderson, Freestone, Henderson, Kaufman, and Navarro. A total of 115,000 acres were inundated in the three-county area of Anderson, Freestone and Navarro. In addition to pasture, county roads and bridges were damaged. The U. S. Corps of Engineers estimated total property and agricultural damage at \$358,000. Flood crests up to 31.2 feet were observed at Trinidad (flood stage 28 feet), and flood stages up to 42.8 feet were observed at Long Lake (flood stage 35 feet).
Mineral Wells, Palo Pinto County	2	4:45 p-6:45 p	3	1/2	0	0	5	0		Flash Flooding
										Five to seven inches of rain fell in and near Mineral Wells during the afternoon and evening, with most of the total falling within less than an hour. Severe local flooding resulted, causing an estimated \$150,000 damage to public property, including streets and drainage systems, and an additional \$90,000 to private property. An estimated 75 homes were flooded. Heaviest damage in the business sector was to the ABC Furniture Company which suffered \$30,000 damage. The west part of the city was hardest hit.
Lone Oak community, Hunt County	3	Morning	Short	Narrow	0	0	2	0		Tornado
										A small tornado touched down on the Joe Stewart place on Farm Road 513 north of the Lone Oak community in Hunt County and catapulted a pump house about 200 feet before dropping it to the ground.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Texas (continued) Northern Cherokee County	3	Morning	?	?	0	0	4	0	Windstorm
									Barns, garages and sheds were unroofed by high winds in the northern part of Cherokee County. Heaviest damage was in the Nixon area.
Grapevine, Tarrant County	3	3:15 a- 4:12 a	2	10-15	0	2	4	0	Windstorm
									A windstorm, which may have included a funnel aloft, caused damage in four different sections of Grapevine: Main Street, the 900 block of East Wall, 700 block of East Northwest Highway, and at the Rod and Reel Trailer Park, Route One. Two persons were injured and total damage was estimated at \$20,000. The damaged areas were about one half mile apart and 10 to 15 yards wide. No funnels were observed due to limited visibility, but on E. Wall Street, Mr. and Mrs. David Mandiola and their eight children were awakened by a noise that Mrs. Mandiola described as "a train rumbling through the house". A piece of the frame home next door was picked up, hurled against the cars, and was slammed into the roof of the Mandiola house. Plate glass windows and neon signs were shattered; automobiles were damaged; and two unoccupied mobile homes in Grapevine were overturned. About one hour earlier, at 3:15 a.m., the mobile home of Mr. and Mrs. Bobby Rice at the Rod and Reel Trailer Park on the shore of Lake Grapevine was overturned. Two persons in the mobile home suffered minor injuries. Mrs. A. D. Onlesne, who was in the Rice trailer said that she was awakened by a loud noise.
									"It got louder and louder, and about the time I realized what it was, the trailer toppled."
Near Wylie, Collin County	3	4:30 a	?	?	0	5	4	0	Windstorm
									A windstorm, which may have included a funnel aloft, ripped apart a trailer home belonging to David E. Allen at the Helms Mobile Home Park, 2.6 miles north of Murphy, and northwest of Wylie, in Collin County. Mrs. Allen was hurt seriously, four others suffered minor injuries.
									"It had been raining off and on all night" said Mr. Allen.
									"We didn't hear anything but a roar. We awoke and jumped up. It turned our mobile home over and made matchsticks out of it."
									Total damage to the trailer and contents was estimated at \$6,000.
Henderson and Smith Counties	3	6:00 a- 7:00 a	?	?	0	1	4	0	Windstorm
									High thunderstorm winds demolished a trailer home seven miles south of Chandler in Henderson County. Mrs. Linda McCurley, who was inside the trailer home at the time the wind struck, was thrown 100 yards, but suffered only minor injuries. In the Flint community, 10 miles south of Tyler, a \$7,000 trailer home was demolished also. Several other trailer homes in the area were damaged. Total damage was estimated at \$15,500.
SE Mount Pleasant, Titus County	3	6:55 a	Short	Narrow	0	0	2	0	Tornado
									A small tornado demolished a barn located approximately 100 yards behind the Jimmy Taylor farm home three miles east of Mount Pleasant. Mrs. L. N. Taylor heard the roar of the vortex before it hit the barn. There was no other damage.
SW Gladewater, Upshur County	3	7:20 a- 8:45 a	?	?	0	0	4	0	Windstorm
									Thunderstorm winds demolished a 40-foot long unoccupied mobile home, used as an office by owner, Charles Millenix on Route 1, old Tyler Highway. Damage to the mobile home and contents was estimated at \$10,000. A trailer, located adjacent to Millenix's occupied by Mrs. Tiny Murray, was blown off its foundation and had a large glass door smashed.
Overton, Rusk County	3	7:30 a- 7:40 a	1/2	67	0	0	4	0	Tornado, windstorm
									A tornado swept across the campus of the Overton Public Schools just before the bulk of the students were due to arrive. The funnel touched down at the east corner of the elementary school building and cut a path through the pine studded playground area. Seventy to seventy five trees were damaged. Tall, stately pines, 75-100 feet in height, and two no five feet in diameter were stacked almost in rows on the ground, some uprooted and others twisted off at various levels from the ground. Windows were broken and ceiling tile torn loose in two classrooms. Several small buildings on the campus were demolished. Approximately 30 homes suffered minor roof damage. The vortex was accompanied by a train like roar.
Longview, Gregg County	3	7:30 a- 8:30 a	1	170	0	0	5	0	Windstorm
									Approximately 100 homes in the north and northwest sections of Longview received moderate to heavy roof damage from thunderstorm winds that may have included a funnel aloft. Damage was estimated at \$200,000. Some persons reported hearing a "train-like" roar during the passage of the storm. Winds caused extensive damage in the Greggton area, and along Fairmont Drive to Miami Drive, where the damage pattern appeared to make a 45-degree turn and unroofed or damaged practically every roof in the 1300 block of

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Texas (continued)									Miami Drive. Some signs and plate glass windows in the business section were damaged. The path of the damage was about 500 feet wide and was divided into three separate areas that extended over a distance of one mile or more.
Near Lodi, Marion County	3	8:10 a- 8:15 a	**300	50	0	0	2	0	Tornado
									A small tornado touched down on the Stern Ranch three miles east of Lodi in northern Marion County. Two barns and a car shed were demolished, and some fencing and timber were blown down. A boat, trailer, and truck belonging to a Mr. Whatley suffered minor damage. Mr. Whatley had a clothes line post set in concrete approximately two and one half feet in the ground and there was an oil drum standing upright on the ground about 15 feet away. The iron clothes line post was sucked up out of the ground while the oil drum was undisturbed. The tornado moved from southwest to northeast.
Bivins Community, Cass County	3	8:10 a- 8:15 a	**400	100	0	0	3	0	Tornado
									A tornado skipped through the small community of Bivins, seven miles south of Atlanta, in Cass County. Several barns were destroyed, and some 10 to 12 other homes and buildings received minor damage. Several persons in the area said they heard the tornado approaching and at first thought it was a low flying airplane or a freight train. They said the sky turned dark "almost like night", about 8:00 a.m., and then several minutes later the vortex cut a narrow strip through this community of 200 residents. Property damage was estimated at \$5,000. There were no injuries.
Houston County	3	3:35 p							Funnel aloft
									Pilot reported funnel cloud aloft approximately 52 statute miles east-northeast of College Station, in southern Houston County.
Brownwood, Brown County	3	Night			0	0	4	0	Lightning
									A home occupied by the Dan Huckabee family and located on the Brownwood Municipal Airport was struck by lightning. The resulting fire destroyed the home and all its contents. No one was at home when the fire started.
Houston, Harris County	17	1:45 a- 3:30 a	?	?	0	0	?	0	Windstorm
									Violent thunderstorm winds ripped apart a 12 by 60 feet mobile home, fully furnished, but unoccupied, at 2315 Greens Road, just off the Aldine-Westfield Road in north Houston. Parts of the trailer were draped over the brick bungalow of Mr. and Mrs. James A. Harper, and furniture from the trailer was scattered over the yard. At the Wayne Whitworth home, 16114 Greenoaks, near the Intercontinental Airport, the roof of his garage was blown off and two brick walls were crumbled by the wind. In northeast Houston, at 3812 Oakes Road, the six-room home of Curtis L. Simmons suffered considerable wind damage. In southwest Houston, a resident of the 1300 block of Scottsdale reported the wind cracked walls of a home, caused the ceiling to sag and blew out some windows.
Panhandle	27-28		200	*60	3	12	4	0	Blizzard
									The Texas Panhandle experienced its first blizzard in 13 years, since March 22-25, 1957, and the first in the State since the South Plains blizzard of January 24-25, 1961. Up to nine inches of snow spread over the western Panhandle, and 5 mile-per-hour winds piled the snow into 5-foot drifts. The areas hardest hit was the corridor along U. S. Highway 60 southwest of Amarillo, which includes Hereford, Friona, Bovina, Farwell, and Clovis, New Mexico. Amarillo measured seven inches of snow on the ground, Panhandle six; Clarendon and Fallett five; Dalhart three and Childress one. Just across the state line in New Mexico, San Jan measured 12 inches. The storm began about 7:30 p.m. on the 27th and was over by about 11:00 a.m. on the 28th. Temperatures fell into the low 20s during the early morning hours of the 28th, and a low of 17°F was observed at Stratford. On the afternoon of the 28th, skies cleared and a bright sun began to melt the snow. Two small children, left in their snow-stalled automobile while their brother and sisters went for help, froze to death near Bovina. Total number of deaths as a result of the storm was three. Twelve persons suffered minor injuries. An estimated 250 persons were stranded on U. S. Highway 60 by a drift west of Clovis (in New Mexico) and more than 70 cars were stranded between Hereford and Farwell, with an average of three persons per car. Visibility was out to near zero in the blowing snow. Cattle losses were estimated at \$12,000.
Utah									
Davis County	10	morning			0	0	4	0	Windstorm
									Strong easterly canyon winds in excess of 50 miles per hour blowing out of the canyons of Davis County ripped a mobile home off its trailer causing damage in excess of \$5,000. Signs and roofs in the area were also damaged.
Vermont									
State	4-5	Night			0	0	0	0	Glaze
									Freezing rain caused icing of surfaces and hazardous roads in some areas.

See reference notes at end of table.

# STORM DATA AND UNUSUAL WEATHER PHENOMENA

MARCH 1970

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	
Vermont (continued)									
Central	21				0	0	4	0	Snow
		Heavy, wet and sticky snow, though accumulating to more than 4 to 6 inches only in local areas, broke trees and branches with its weight. Utility lines were downed in some areas.							
U. S. Virgin Islands			None	reported					
Virginia									
3 miles south of Alexandria	26	6-6:30 pm			0	0	3	0	Wind
		Trees were blown down and a 20 Foot high by 240 Foot long cinder block wall was blown over.							
Washington			None	reported					
West Virginia			None	reported					
Wisconsin			None	reported					
Wyoming			None	reported					

PLACE	DATE	TIME - LOCAL STANDARD	LENGTH OF PATH (MILES)	WIDTH OF PATH (YARDS)	NO. OF PERSONS		ESTIMATED <sup>1</sup> DAMAGE		CHARACTER OF STORM
					KILLED	INJURED	PROPERTY	CROPS	

- \* Miles instead of yards.  
 † Storm damages are placed in categories varying from 1 to 9 as follows:
- 1 Less than \$50
  - 2 \$50 to \$500
  - 3 \$500 to \$5,000
  - 4 \$5,000 to \$50,000
  - 5 \$50,000 to \$500,000
  - 6 \$500,000 to \$5,000,000
  - 7 \$5,000,000 to \$50,000,000
  - 8 \$50,000,000 to \$500,000,000
  - 9 \$500,000,000 to \$5,000,000,000.

Note: This publication contains our best information on storms but, due to the difficulties inherent in collection of this type of data, it is not all-inclusive. Delayed data and corrections will be carried in the June and December issues of this publication.

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